

**What is claimed is:**

1. A process for distillatively preparing TDA from a reactant stream comprising TDA, high boilers and low boilers in a dividing wall column in which a dividing wall is disposed in the longitudinal direction of the column to form an upper combined column region (2), a lower combined column region (3), a feed section (4) having a rectifying section (5) and stripping section (6), and also a withdrawal section (7) having a rectifying section (9) and stripping section (8), which comprises the following steps:
  - a. feeding the reactant stream (13) into the feed section (4) of the dividing wall column (1);
  - b. drawing off a low boiler fraction via the top of the column (11);
  - c. drawing off TDA via a side draw (14) in the withdrawal section (7) of the dividing wall column (1);
  - d. drawing off a low boiler fraction via the bottom of the column (12).
2. The process of claim 1, wherein a portion of the high boiler fraction drawn off via the bottom of the column (12) is fed back to the dividing wall column (1) via a side feed in the lower combined column region (3).
3. The process of claim 1 or 2, wherein a portion of the low boiler fraction drawn off via the top of the column (11) is fed back to the dividing wall column (1) via a side feed in the upper combined column region (2).
4. The process of any of claims 1 to 3, wherein the reactant feed and the side draw for product withdrawal are disposed at the same height in the dividing wall column (1).
5. The process of any of claims 1 to 3, wherein the reactant feed and the side draw for product withdrawal are disposed at different height in the dividing wall column (1).
6. The process of claim 5, wherein the side draw for product withdrawal is offset by from 5 to 15 theoretical plates from the reactant feed.
7. The process of any of claims 1 to 6, wherein the distillation is carried out at a pressure in the column bottom of  $\leq 1$  bar.

8. The process of any of claims 1 to 7, wherein the distillation is carried out at a pressure in the column bottom of  $\leq 0.2$  bar.
- 5 9. The process of any of claims 1 to 8, wherein the distillation is carried out at a pressure in the column bottom of  $\leq 0.1$  bar.
10. The process of any of claims 1 to 9, wherein the bottom temperature is below  $250^{\circ}\text{C}$ .
11. The process of any of claims 1 to 10, wherein the bottom temperature is below  $230^{\circ}\text{C}$ .
- 10 12. The process of any of claims 1 to 11, wherein the bottom temperature is below  $220^{\circ}\text{C}$ .